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मानक

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Mazdoor Kisan Shakti Sangathan

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“Step Out From the Old to the New”

IS 11823-2 (1986): Couplings for Disposal of Oily Mixture for Inland Vessels, Part 2: Quick Release Couplings [TED 18: Inland, Harbour Crafts and Fishing Vessels]



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“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard
SPECIFICATION FOR
COUPLINGS FOR DISPOSAL OF OILY MIXTURE FOR INLAND VESSELS
PART 2 QUICK RELEASE COUPLINGS

1. Scope

1.1 This standard lays down the requirements of quick release couplings with a union nut to connect storage containers to the piping for disposal of oily mixture from inland vessels.

2. Dimensions

2.1 The dimensions of DN 80 quick release coupling, end-piece and bush shall be as given in Fig. 1, 2 and 3 respectively.

2.2 The dimensions of gaskets shall be as given in Fig. 4 and Fig. 5.

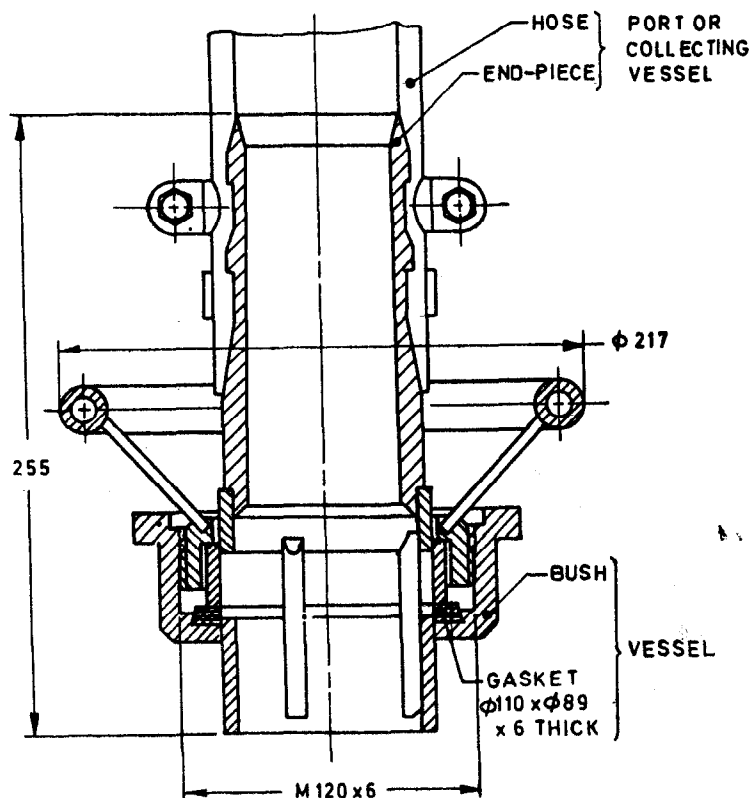
3. Materials

3.1 The parts of couplings shall be made of steel or other equivalent materials. If the flash point of the oil vapours in the oily mixture is lower than 60°C the parts shall be made from non-sparking materials.

3.2 The gaskets $\phi 110 \times \phi 89 \times 6$ thick and $\phi 135 \times \phi 120 \times 2$ thick of quick release coupling shall be made of oil and petrol resistance soft rubber.

4. General Requirements

4.1 The limit deviations of the dimensions and the surface roughness of parts of couplings shall meet all requirements and the necessity of ensuring leak-proof joints.



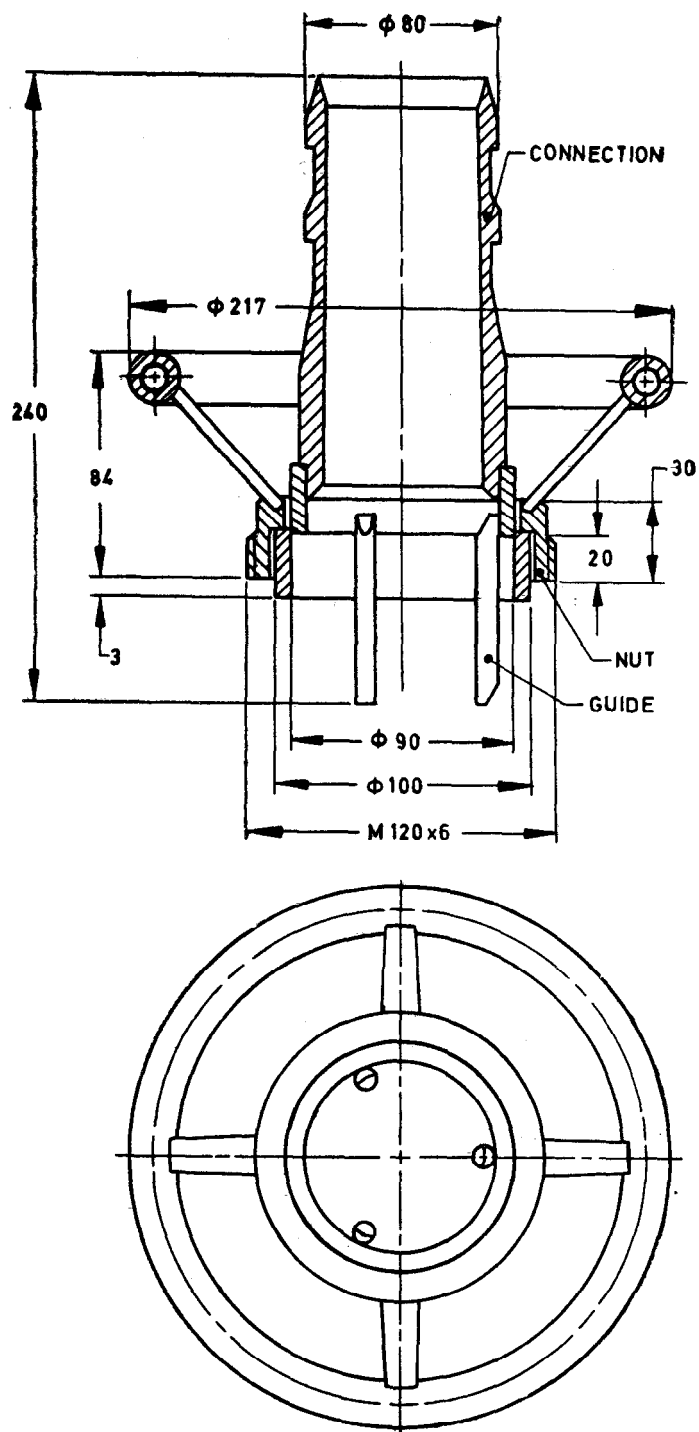
All dimensions in millimetres.

FIG. 1 QUICK RELEASE COUPLING DN 80 (ASSEMBLED)
FOR THE DISPOSAL OF OILY MIXTURE

Adopted 10 September 1986

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All dimensions in millimetres.

FIG. 2 END-PIECE DN 80 FOR THE DISPOSAL OF OILY MIXTURE

4.2 The conventional pressure for quick release couplings shall be 0.6 MPa*.

5. Designation

5.1 The designation of coupling and its parts shall contain :

- Name of the coupling and its parts (abbreviated);
- Number of standard;
- Group of coupling; and
- Number of coupling or its part containing the type of coupling and the part ordinal number.

Example : See Table 1.

$$1 \text{ kgf/cm}^2 \approx 98.1 \text{ kPa}.$$

TABLE 1 DESIGNATION OF QUICK RELEASE COUPLINGS AND THEIR PARTS
(Clause 5.1)

Number of Coupling, Part (Type, Ordinal Number)	Name of Coupling	Designation
2	Quick release coupling (assembled)	Coupling IS : 11823 (Part 2) — A ₂
21	End-piece	End-piece IS : 11823 (Part 2) — A ₂₁
22	Bush	Bush IS : 11823 (Part 2) — A ₂₂
221	Bush cover	Bush cover IS : 11823 (Part 2) — A ₂₂₁
223	Gasket $\phi 110 \times \phi 89 \times 6$ thick	Gasket IS : 11823 (Part 2) — A ₂₂₃
224	Gasket $\phi 135 \times \phi 120 \times 2$ thick	Gasket IS : 11823 (Part 2) — A ₂₂₄

6. Marking

6.1 The couplings shall be marked with manufacturer's name, or trade-mark and the designation.

6.1.1 *Certification Marking* — Details available with the Bureau of Indian Standards.

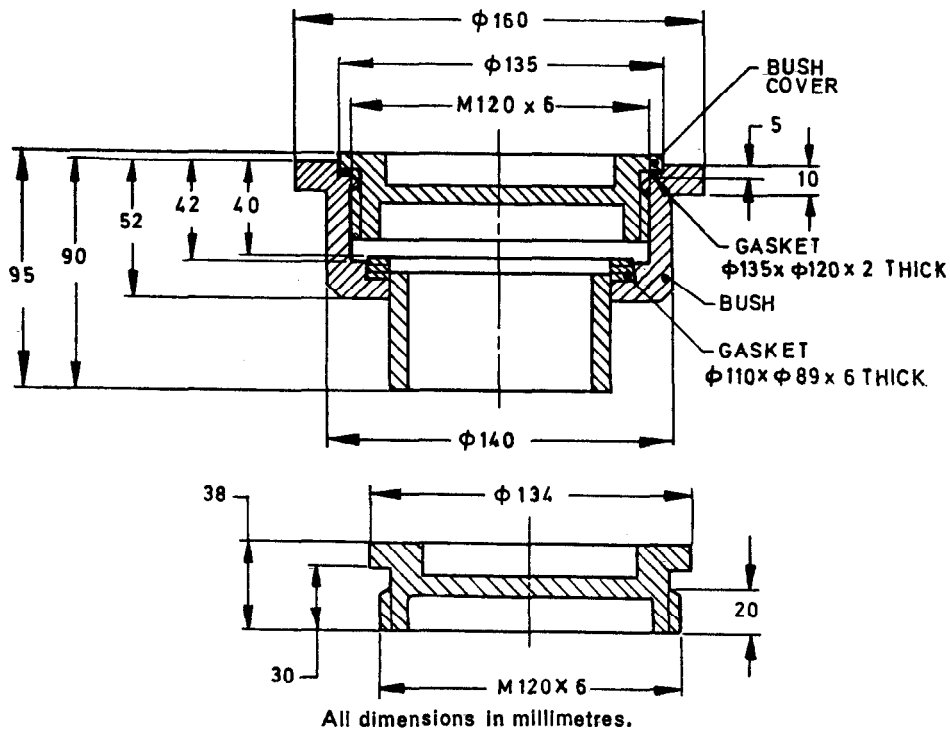


FIG. 3 BUSH DN 80 FOR THE DISPOSAL OF OILY MIXTURE ASSEMBLED WITH THE COVER

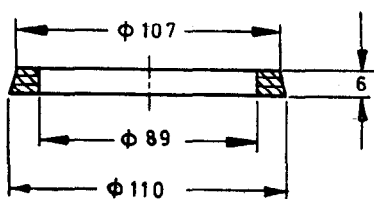


FIG. 4 GASKET $\phi 110 \times \phi 89 \times 6$ THICK

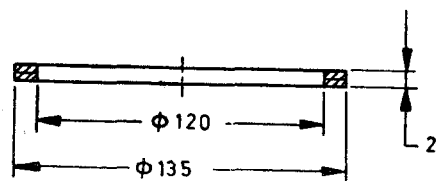


FIG. 5 GASKET $\phi 135 \times \phi 120 \times 2$ THICK

EXPLANATORY NOTE

This standard gives the requirements for couplings for disposal of oily mixture used for inland vessels. The type of coupling is chosen depending upon the use of vessels and the system of polluted water transfer and treatment adopted in its operational area. This part of the standard deals with quick-release couplings consisting of two parts a bush and an end-piece (with a uniform nut) which is fixed on the bush by turning the hand wheel.

This standard is being issued in the following four parts :

- Part 1 Flange couplings;
- Part 2 Quick-Release couplings;
- Part 3 Adapter-Flange/end-piece; and
- Part 4 Adapter-Flange/bush.

Notwithstanding what is stated in this standard, the rules and requirement laid down by the Classification Societies and Statutory Authorities in all respects shall prevail.

This standard is based on ISO 7608-1985 'Shipbuilding — inland navigation — couplings for disposal of oily mixture and sewage water', issued by the International Organization for Standardization (ISO). The ISO standard classifies the couplings for oily mixture under Group A and further sub-classifies the quick release couplings as Type 2. The same method of classification is used in this standard for the sake of uniformity.